CLAIM AMENDMENTS

1. (Currently Amended) Equipment for the purification of gases ~~employing~~ comprising at least one ~~or several~~ heat exchanging ~~matrices~~ matrix, said matrix adapted to heat ~~where~~ the gas in a regenerative process ~~is heated~~ to oxidation or decomposition temperature, ~~characterized by that~~ the at least one ~~of the~~ heat exchanging ~~matrices~~ matrix ~~comprises~~ comprising at least three zones, at least one zone is a catalytic zone ~~that~~ is catalytically active in promoting reduction of nitrogen oxides and at least one zone is a hot zone, said catalytic zone is spaced a distance from the hot zone and has a temperature below the oxidation or reduction temperature.

2. (Currently Amended) Equipment for the purification of gases ~~employing~~ comprising a single heat exchanging matrix said matrix adapted to heat ~~where~~ the gas is heated ~~in a regenerative~~ process to oxidation or decomposition temperature, the heat exchanging matrix ~~comprises~~ comprising two catalytic zones that are catalytically active and situated on each side of ~~the~~ a hot center ~~centre~~ zone of the matrix and each catalytic zone is spaced a distance from the hot center zone and has a temperature below the oxidation temperature.

3. (Currently Amended) Equipment according to claim 1, ~~characterized by that it comprises~~ further comprising a means for the supply of agents ~~to the incoming gas flow~~ that reduce nitrogen oxides.

4. (Currently Amended) Equipment according to claim 3, wherein said equipment is adapted to interrupt a ~~characterized by that the~~ supply of reducing agent ~~is interrupted~~ for a short while in connection with change of direction of gas flow through the equipment.

5. (Currently Amended) Equipment according to claim 1, ~~characterized by that~~ wherein the equipment is adapted to maintain a supply of reducing agent ~~is maintained~~ only when the gas to be treated goes through the equipment in such a way that ~~it~~ the gas to be treated passes a zone that is catalytically active before it reaches temperatures that are so high that oxidation or decomposition occurs.

6. (Currently Amended) Equipment according to claim 2, ~~characterized by that it comprises~~ a means for the supply of agents ~~to the incoming gas flow~~ that reduce nitrogen oxides.

7. (New) Equipment according to claim 6, wherein said equipment is adapted to interrupt a supply of reducing agent for a short while in connection with change of direction of gas flow through the equipment.

8. (New) Equipment according to claim 2, wherein the equipment is adapted to maintain a supply of reducing agent only when the gas to be treated goes through the equipment in such a way that the gas to be treated passes a zone that is catalytically active before it reaches temperatures that are so high that oxidation or decomposition occurs.